

Official

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coil
a second LC filter circuit unit including a common side line, said second LC filter circuit unit being connected between said second input terminal and said second output terminal;

a common line defined by an element that is independent of said first LC filter circuit unit and said second LC filter circuit unit;

wherein said common side line of said first LC filter circuit unit is electrically and directly connected to said common side line of said second LC filter circuit unit via said common line; and

an approximate midpoint of said common line is defined as a common phase reference point of each of said first and second LC filter circuit units.

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11. (Twice amended) An input-output balanced filter comprising:
a plurality of insulating layers;
first and second input terminals and first and second output terminals;
a first LC filter circuit unit connected between said first input terminal and said first output terminal and having a plurality of first coil conductive patterns, first capacitor conductive patterns and a common side line;

a second LC filter circuit unit connected between said second input terminal and said second output terminal and having a plurality of second coil conductive patterns, second capacitor conductive patterns and a common side line; and

a common line conductive pattern defined by an element that is independent of said first LC filter circuit unit and said second LC filter circuit unit;

wherein said common side line of said LC filter circuit unit is electrically and directly connected to said common side line of said second LC filter circuit unit via said common line conductive pattern; and

an approximate midpoint of said common line is defined as a common phase reference point of each of said first and second LC filter circuit units.

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21. (Twice amended) An input-output balanced filter comprising:

- a first LC bandpass filter circuit unit including a plurality of LC parallel resonant circuits electromagnetically connected to one another;
- a second bandpass filter circuit unit including a plurality of LC parallel resonant circuits electromagnetically connected to one another;
- an inductor defined by an element that is independent of said first LC filter circuit unit and said second LC filter circuit unit for electrically and directly connecting a common side line of the first LC bandpass filter circuit unit to a common side line of the second LC bandpass filter circuit unit;
- first and second input terminals provided with one of the LC parallel resonant circuits of the first LC bandpass filter circuit unit and one of the LC parallel resonant circuits of the second LC bandpass filter circuit unit, respectively;
- first and second output terminals provided with another of the LC parallel resonant circuits of the first LC bandpass filter circuit unit and another of the LC parallel resonant circuits of the second LC bandpass filter circuit unit, respectively; wherein
- an approximate midpoint of the common line is defined as a common phase reference point of each of the first and second LC bandpass filter circuit units.
